



PTO/SB/08a/b (08-03)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449A/B/PTO				Complete If Known	
				Application Number	10/676,726-Conf. #2945
				Filing Date	October 1, 2003
				First Named Inventor	Richard D. Thornton
				Art Unit	2834
				Examiner Name	B. S. Mullins
Sheet	1	of	1	Attorney Docket Number	102320-0037

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (If Known)			

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Country Code <sup>3</sup> -Number-Kind Code <sup>4</sup> (If Known)			
BSM	BA	EP 1283586 A1	02-12-2003	Ohto, Motomichi	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
BSM	CA	Hor, P. J., et al. "Minimization of Cogging Force in a Linear Permanent Magnet Motor", IEEE Transactions on Magnetics, Vol. 34, No. 5, September 1998, pp.3544-3547.			
BSM	CB	Koh, Chang Seop, "New Cogging-Torque Reduction Method for Brushless Permanent-Magnet Motors", IEEE Transactions on Magnetics, Vol. 39, No. 6, November 2003, pp.3503-3506.			
BSM	CC	Zyl, AW van and CF Landy, "Reduction of Cogging Forces in a Tubular Linear Synchronous Motor by Optimising the Secondary Design", IEEE Africon, pp.689-692 (2002).			
BSM	CD	Zhu, Z.Q., et al., "Reduction of cogging force in slotless linear permanent magnet motors", IEE Proc.-Electr. Power Appl., Vol. 144, No. 4, July 1997, pp.277-282.			
BSM	CE	Zhu, Z.Q., et al., "Novel Linear Tubular Brushless Permanent Magnet Motor", EMD97, 1-3, September 1997, Conference Publication No. 444, IEE 1997, pp.91-95.			
BSM	CF	Breton, C., et al., "Influence of Machine Symmetry on Reduction of Cogging Torque in Permanent-Magnet Brushless Motors", IEEE Transactions on Magnetics, Vol. 36, No. 5, September 2000, pp.3819-3823.			
BSM	CG	Li, Touzhu and Gordon Slemon, "Reduction of Cogging Torque in Permanent Magnet Motors", IEEE Transactions on Magnetics, Vol. 24, No. 6, November 1988, pp.2901-2903.			

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Examiner Signature	<i>BSMull</i>	Date Considered	2/17/05
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Complete If Known

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet	1	of	1	Attorney Docket Number	102320-0037

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		Number-Kind Code <sup>2</sup> (# known)			
BS	AA	US-3,912,992	10-14-1975	LAMB	
	AB	US-6,418,857	07-16-2002	OKANO et al.	
	AC	US-4,972,779	11-27-1990	MORISHITA et al.	
	AD	US-5,467,718	11-21-1995	SHIBATA et al.	
	AE	US-6,684,794	02-03-2004	FISKE et al.	
✓	AF	US-6,286,434	09-11-2001	FISCHPERER	

**FOREIGN PATENT DOCUMENTS**

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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (# known)				

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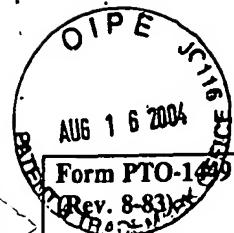
**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
BS			

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Examiner Signature 1356883	<i>Rsm</i>	Date Considered	2/17/05
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Form PTO-169  
Rev. 8-83  
R-03U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO:  
0102320-00037APPLICATION NO:  
10/676,726APPLICANT(S):  
Thornton et al.FILING DATE:  
10/1/2003

GROUP ART UNIT:

## INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE *
Bm		3	0	2	9	8	9	3	4/17/62	Mountjoy			
		3	4	4	0	6	0	0	4/22/69	Frech et al.			
		3	5	3	2	9	3	4	10/6/70	Ballman			
		3	6	0	9	6	7	6	9/28/71	Jauquet et al.	340	23	
		3	6	1	7	8	9	0	11/2/71	Kurauchi et al.	325	51	
		3	6	2	8	4	6	2	12/21/71	Holt	104	105	
		3	6	3	6	5	0	8	1/18/72	Ogilvy et al.	340	47	
		3	6	7	9	8	7	4	7/25/72	Fickenscher	235	61.7	
		3	7	6	8	4	1	7	10/30/73	Thornton et al.			
↓		3	7	7	2	6	4	0	11/13/73	Auer, Jr. et al.	340	23	

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	YES	NO
Bm		WO 95/21405	8/10/95	PCT					
Bm		0 229 669	7/22/87	EP					
Bm		0 482 424 B1	1/10/96	EP					
Bm		235 786 A3	5/21/86	DE					x

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

Bm	Eghtesadi, M. "Inductive Power Transfer to an Electric Vehicle-Analytical Model," 40 <sup>th</sup> IEEE Vehicular Technology Conference (May 6-9, 1990) Orlando, FL, pp. 100-104.
Bm	Stevens, Bruce W. "Asynchronous Bidirectional Network Interface Enabling Seamless Concurrent Processing in a Distributed Heterogeneous Multiprocessor System," Serial No. 783,661, Filing Date 28 October 1991, Office of the Chief of Naval Research.
Bm	Hughes, Austin. <u>Electric Motors and Drives</u> (Newnes: Oxford, 1990), Table of Contents (pp. v-xiii), Chapter 9 "Synchronous, Switched Reluctance and Brushless D.C. Drives," (pp. 293-315).
Examiner Bm	Date Considered: 2/7/05
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Rev. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO: 0102320-00037		APPLICATION NO: 10/676,726		
									APPLICANT(S): Thornton et al.				
									FILING DATE: 10/1/2003		GROUP ART UNIT:		
<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>													
<b>U.S. PATENT DOCUMENTS</b>													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME		CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE*
<i>Bm</i>		3	7	8	6	4	1	1	1/15/74	Kurauchi et al.	340	23	
		3	8	4	5	7	2	0	11/5/74	Bohn et al.	104	148	
		3	8	5	8	5	2	1	1/7/75	Atherton	104	148	
		3	8	7	4	2	9	9	4/1/75	Silva et al.	104	130	
		3	9	0	6	4	3	6	9/16/75	Kurauchi et al.	340	23	
		3	9	2	7	7	3	5	12/23/75	Mericke et al.	104	148	
		3	9	7	9	0	9	1	9/7/76	Gagnon et al.	246	8	
		4	0	2	3	7	5	3	5/17/77	Dobler	246	5	
		4	0	6	1	0	8	9	12/6/77	Sawyer	104	23	
<i>Bm</i>		4	0	6	5	7	0	6	12/27/77	Gosling et al.	318	254	
<b>FOREIGN PATENT DOCUMENTS</b>													
		DOCUMENT NUMBER						DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION
<i>Bm</i>		195 35 856 A1						3/20/97	DE				YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
<i>Bm</i>		8-129336						5/21/96	JP				<input checked="" type="checkbox"/>
<i>Bm</i>		91-4927						3/29/91	KR				<input checked="" type="checkbox"/>
<i>Bm</i>		1140212 A						2/15/85	SU				<input checked="" type="checkbox"/>
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)</b>													
<i>Bm</i>		Basak, Amitava. <u>Permanent-Magnet DC Linear Motors</u> (Clarendon Press: Oxford, 1996), Table of Contents (pp. ix-xi), Chapter 2 "Types of DC Linear Motor" (pp. 21-41) and Chapter 5 "Supports and Guidance" (pp. 90-104).											
<i>Bm</i>		Gieras, Jacek F. et al. <u>Linear Synchronous Motors: Transportation and Automation Systems</u> (CRC Press: New York, 2000), Table of Contents, Chapter 6 "High Speed Maglev Transport" (pp. 177-215).											
Examiner <i>Bm</i>	Date Considered: <i>3/17/05</i>												
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.												

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									APPLICANT(S): Thornton et al.					
									FILING DATE: 10/1/2003		GROUP ART UNIT:			
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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME		CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE*
<i>Jm</i>		4	1	2	3	1	7	5	1/2/79	Miller et al.		104	130	
		4	2	9	2	4	6	5	9/29/81	Wilson et al.		178	3	
		4	3	6	1	2	0	2	11/30/82	Minovitch		180	168	
		4	4	4	1	6	0	4	4/10/84	Schlig et al.		198	598	
		4	5	2	2	1	2	8	6/11/85	Anderson		104	130	
		4	6	6	5	8	2	9	5/19/87	Anderson		104	124	
		4	6	6	5	8	3	0	5/19/87	Anderson et al.		104	124	
		4	6	7	1	1	8	5	6/9/87	Anderson et al.		104	130	
		4	7	2	6	2	9	9	2/23/88	Anderson		104	88	
<i>V</i>		4	7	7	6	4	6	4	10/11/88	Miller et al.		209	3.3	
<b>FOREIGN PATENT DOCUMENTS</b>														
		DOCUMENT NUMBER							DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION
														YES      NO
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)</b>														
Examiner <i>Jm</i>	Date Considered: <i>2/17/05</i>													
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<b>U.S. PATENT DOCUMENTS</b>														
EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME		CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE*
<i>Bm</i>		4	7	9	4	8	6	5	1/3/89	Lindberg	104	246		
<i>Bm</i>		4	8	0	0	3	2	8	1/24/89	Bolger et al.	320	2		
		4	8	2	6	3	4	4	6/6/89	Bolger	191	10	<i>wrong P.N.</i>	
<i>Bm</i>		4	9	1	4	5	3	9	4/3/90	Turner et al.	361	18		
		5	0	3	2	7	4	6	7/16/91	Ueda et al.	310	12		
		5	1	0	8	0	5	2	4/28/92	Malewicki et al.	246	5		
		5	1	2	6	6	0	6	6/30/92	Hofmann	310	49		
		5	2	1	4	3	2	3	5/25/93	Ueda et al.	310	12		
		5	2	1	4	9	8	1	6/1/93	Weinberger et al.	74	573		
<i>↓</i>		5	2	4	2	1	3	6	9/7/93	Cribbens et al.	246	34		
<b>FOREIGN PATENT DOCUMENTS</b>														
		DOCUMENT NUMBER							DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION
													YES      NO	
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)</b>														
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<i>Bm</i>		5	2	5	1	5	6	3	10/12/93	Staehs et al.	104	168	
		5	2	6	3	6	7	0	11/23/93	Colbaugh et al.	246	63	
		5	2	6	7	5	1	4	12/7/93	Staehs et al.	104	246	
		5	2	7	7	1	2	4	1/11/94	DiFonso et al.	104	130	
		5	2	7	7	1	2	5	1/11/94	DiFonso et al.	104	292	
		5	2	9	3	3	0	8	3/8/94	Boys et al.	363	37	
		5	3	2	5	9	7	4	7/5/94	Staehs	211	60.1	
		5	4	0	9	0	9	5	4/25/95	Hoshi et al.	198	372	
		5	4	3	5	4	2	9	7/25/95	Van Den Goor	189	890.1	
<i>V</i>		5	4	4	4	3	4	1	8/22/95	Kneifel, II et al.	318	432	
FOREIGN PATENT DOCUMENTS													
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<i>BoM</i>		5	4	5	0	3	0	5	9/12/95	Boys et al.		363	24	
		5	4	5	2	6	6	3	9/26/95	Berdut		104	283	
		5	4	6	7	7	1	8	11/21/95	Shibata et al.		104	284	
		5	5	1	7	9	2	4	5/21/96	He et al.		104	286	
		5	5	1	9	2	6	6	5/21/96	Chitayat		310	12	
		5	5	2	1	4	5	1	5/28/96	Oudet et al.		310	266	
		5	5	2	3	6	3	7	6/4/96	Miller		310	156	
		5	5	2	8	1	1	3	6/18/96	Boys et al.		318	16	
		5	5	5	1	3	5	0	9/3/96	Yamada et al.		104	293	
<i>↓</i>		5	5	7	3	0	9	0	11/12/96	Ross		191	10	
<b>FOREIGN PATENT DOCUMENTS</b>														
		DOCUMENT NUMBER							DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION
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BJM		5	5	9	0	6	0	4	1/7/97	Lund	104	88.04	
		5	5	9	0	9	9	5	1/7/97	Berkers et al.	414	357	
		5	5	9	2	1	5	8	1/7/97	Riffaud	340	941	
		5	5	9	5	1	2	1	1/21/97	Elliott et al.	104	53	
		5	6	1	9	0	7	8	4/8/97	Boys et al.	307	85	
		5	7	0	9	2	9	1	1/20/98	Nishino et al.	191	10	
		5	7	2	0	4	5	4	2/24/98	Bachetti et al.	246	34	
		5	7	2	3	9	1	7	3/3/98	Chitayat	310	12	
		5	7	5	7	1	0	0	5/26/98	Burgbacher	310	186	
		5	8	2	1	6	3	8	10/13/98	Boys et al.	307	104	
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<i>Bm</i>		5	8	3	9	5	5	4	11/24/98	Clark		191	10	
1		5	8	9	8	5	7	9	4/27/99	Boys et al.		363	23	
		5	9	2	7	6	5	7	7/27/99	Takasan et al.		246	194	
		5	9	5	2	7	4	3	9/14/99	Sidney		310	12	
		5	9	9	0	5	9	2	11/23/99	Miura et al.		310	156	
		6	0	0	5	5	1	1	12/21/99	Young et al.		342	70	
		6	0	0	8	5	5	2	12/28/99	Yagoto et al.		310	12	
		6	0	1	1	5	0	8	1/4/00	Perreault et al.		342	350	
		6	0	3	4	4	9	9	3/7/00	Tranovich		318	650	
		6	0	8	1	0	5	8	6/27/00	Suzuki et al.		310	156	
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER							DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION
														YES      NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)														
Examiner <i>Bm</i>	Date Considered: <i>2/7/05</i>													
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.													
	1181914_1.DOC													

Form PTO-1449 (Rev. 8-83)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE							ATTY. DOCKET NO: 0102320-00037		APPLICATION NO: 10/676,726			
INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>									APPLICANT(S): Thornton et al.					
									FILING DATE: 10/1/2003		GROUP ART UNIT:			
U.S. PATENT DOCUMENTS														
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME		CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE*	
<i>Bm</i>		6	0	8	9	5	1	2	7/18/00	Ansorge et al.	246	194		
		6	1	0	1	9	5	2	8/15/00	Thornton et al.	104	282		
<i>Bm</i>		6	2	2	5	9	1	9	5/1/01	Lumbis et al.	340	933		
<i>Bm</i>		6	4	9	9	7	0	1	12/31/02	Thornton et al.	246	194		
		5	9	0	6	6	4	7	5/25/99	Zyburt et al	701	24		
		6	0	6	4	3	0	1	5/16/00	Takahashi et al.	340	435		
		6	1	0	0	8	2	1	8/8/00	Tanji et al.	340	988		
		6	1	3	7	4	2	4	10/24/00	Cohen et al.	340	933		
		4	8	3	6	3	4	4	6/6/89	Bolger				
<i>V</i>		4	0	3	2	1	7	5	1/2/79	Miller et al.				
FOREIGN PATENT DOCUMENTS														
		DOCUMENT NUMBER						DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION	
													YES	NO
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)														
Examiner <i>Bm</i>	Date Considered: <i>2/17/05</i>													
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.													
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									APPLICANT(S): Thornton et al.				
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<b>INFORMATION DISCLOSURE CITATION</b> <i>(Use several sheets if necessary)</i>													
<b>U.S. PATENT DOCUMENTS</b>													
EXAMINER INITIAL		DOCUMENT NUMBER						DATE	NAME		CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE*
BMA		5	9	0	0	7	2	8	5/4/1999	Moser et al.	324	244	
		6	0	3	2	1	1	0	2/29/2000	Ishihara et al.	702	150	
		5	1	5	2	2	2	7	10/6/92	Kato	104	286	
		5	1	6	1	7	5	8	11/10/92	Shuto	246	419	
		5	1	7	8	0	3	7	1/12/93	Mihirogi	74	569	
		5	1	8	0	0	4	1	1/19/93	Shuto	191	53	
		5	1	9	3	7	6	7	3/16/93	Mihirogi	246	418	
		5	1	9	9	6	7	4	4/6/93	Mihirogi	246	434	
		5	2	4	7	8	9	0	9/28/93	Mihirogi	104	130	
		5	7	0	8	4	2	7	1/13/98	Bush	340	941	
<b>FOREIGN PATENT DOCUMENTS</b>													
		DOCUMENT NUMBER						DATE	COUNTRY		CLASS	SUBCLASS	TRANSLATION
													YES      NO
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)</b>													
Examiner	Date Considered:												
BMA	2/17/05												
	*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and considered. Include copy of this form with next communication to applicant.												
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								APPLICANT(S): Thornton et al.					
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<b>U.S. PATENT DOCUMENTS</b>													
EXAMINER INITIAL		DOCUMENT NUMBER				DATE	NAME	CLASS	SUBCLAS S	FILING DATE IF APPROPRIATE*			
<i>Bm</i>		5	7	5	7	2	8	8	5/26/98	Dixon et al.	340	941	
<b>FOREIGN PATENT DOCUMENTS</b>													
		DOCUMENT NUMBER				DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION			
										YES	NO		
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)</b>													
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